



GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

Transport Bhawan, 1, Parliament Street,
New Delhi - 110001
e-mail: cebsr-rth@nic.in

No.RW/NH/34059/1/2009-S&R(B)

Dated: the 12th May, 2011

To

M/s Mageba Bridge Products Pvt. Ltd.,
45 Jhowtala Road, 3rd Floor,
Kolkatta-700019.

Subject: Empanelment of manufacturing firm/authorized suppliers of various types of expansion joints for bridges on National Highways and other Centrally Sponsored Schemes.

Sir,

1. Ministry has empanelled suppliers/manufacturers of various types of expansion joints vide letter of even number dated 2nd December 2010. Detail of empanelment in respect of M/s Mageba Bridge Products Pvt. Ltd. is as under:

Category of empanelment	Type of Joint	Name of foreign collaboration	Sketch of the Joint
(i)	(2)	(3)	(4)
Local manufacturer under appropriate license and technical collaboration with a foreign principal of repute.	Modular	M/s Mageba SA, Salistrasse 68 8180 Bulach, Switzerland.	Annexure
Local manufacturer without any technical collaboration with a foreign principal.	i) Compression seal ii) Single strip seal		

2. A warranty of trouble free performance, revised interim specifications, validity of empanelment and other terms and conditions are given in this Ministry's letter referred in para (1) above.

Encl: As above.

Yours faithfully,

(Arun Kumar Sharma)

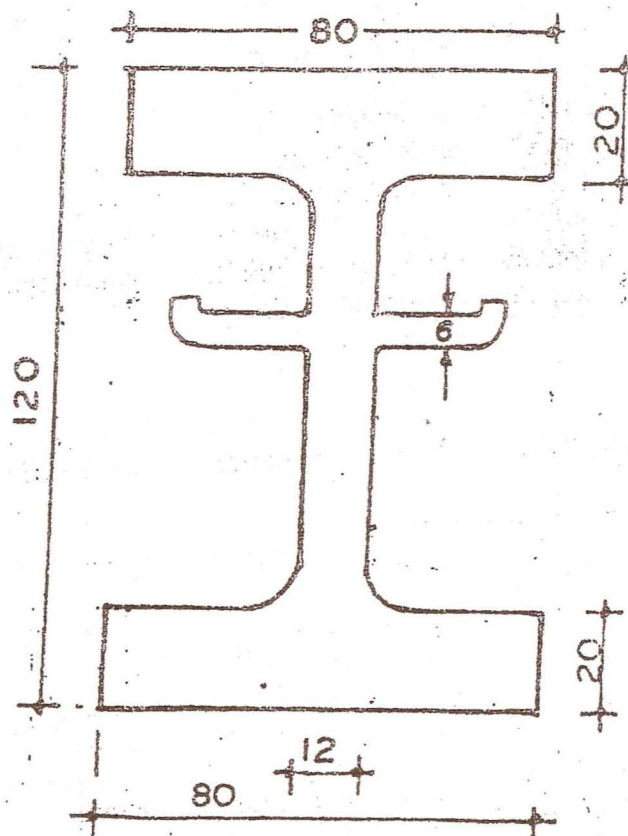
Chief Engineer S&R(B)&(BD)

For Director General (Road Development)& SS

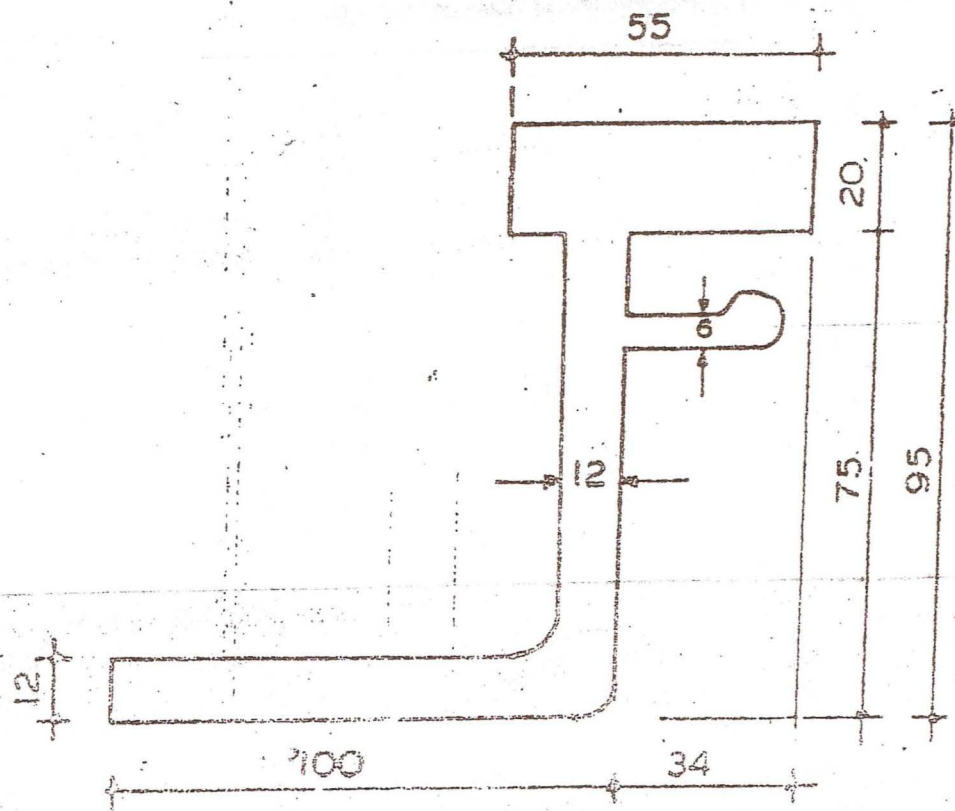
Copy to:

1. The Chairman, National Highway Authority of India, Dwaraka, New Delhi.
2. The Director General (Border Roads), New Delhi
3. All Chief Engineers of States/Union Territories
4. All Technical Officers of the Ministry
5. All ROs/ELOs

MAGEBA SA
EDGE BEAMS & CENTRAL BEAMS
FOR EXPANSION JOINTS



CENTRE BEAM / LAMELLA OF MAGEBA
MODULAR EXPANSION JOINT



EDGE BEAM OF MAGEBA STRIP SEAL
(UNITARY & MODULAR JOINT)

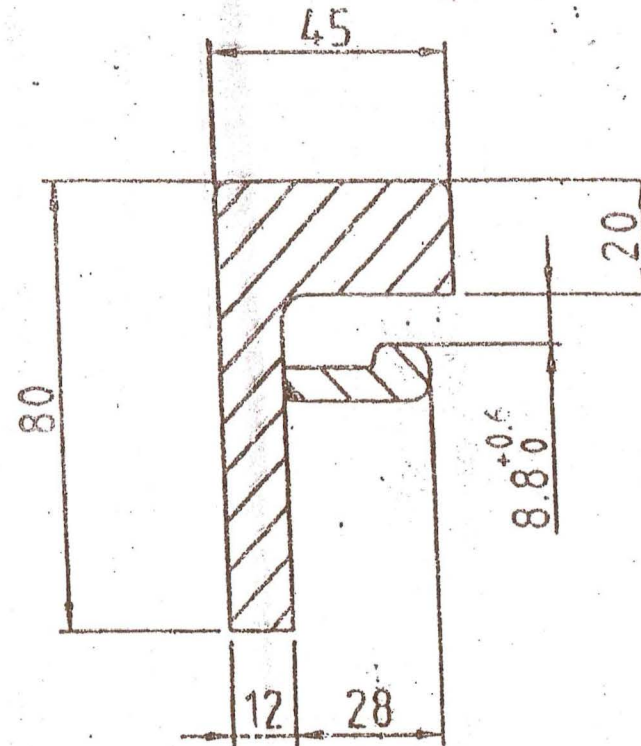
mageba

EDGE-BEAM
RS-A/7 Type 2

Object:

mageba sa

Schlössli 43 - 8180 Rüschlikon - Switzerland
Tel. +41-44-872 40 50 / Fax +41-44-872 40 59
mageba@mageba.ch - www.mageba.ch



mageba
www.mageba.ch

Material: S2062 GR:A / S235 JRG2 of EN10025

Area: 1820 mm²

EDGE BEAM (TYPE-2)

FOR mageba-India RS A80 TYPE SINGLE STRIP SEAL JOINT

ALL DIMENSIONS ARE IN MM



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No.RW/NH/34059/1/2009-S&R(B)

Dated: the 12th May, 2011

To

M/s Asphaltic Construction (I) Pvt. Ltd.,
Mumbai.

Subject: Empanelment of manufacturing firm/authorized suppliers of various types of expansion joints for bridges on National Highways and other Centrally Sponsored Schemes.

Sir,

1. Ministry has empanelled suppliers/manufacturers of various types of expansion joints vide letter of even number dated 2nd December 2010. Detail of empanelment in respect of M/s Asphaltic Construction (I) Pvt. Ltd., Mumbai is as under:

Category of empanelment	Type of Joint	Name of foreign collaboration	Sketch of the Joint
(i)	(2)	(3)	(4)
Supplier under appropriate license and technical collaboration with a foreign principal of repute.	Asphaltic plug	M/s Pismo, U.K	

2. A warranty of trouble free performance, revised interim specifications, validity of empanelment and other terms and conditions are given in this Ministry's letter referred in para (1) above.

Yours faithfully,

(Arun Kumar Sharma)

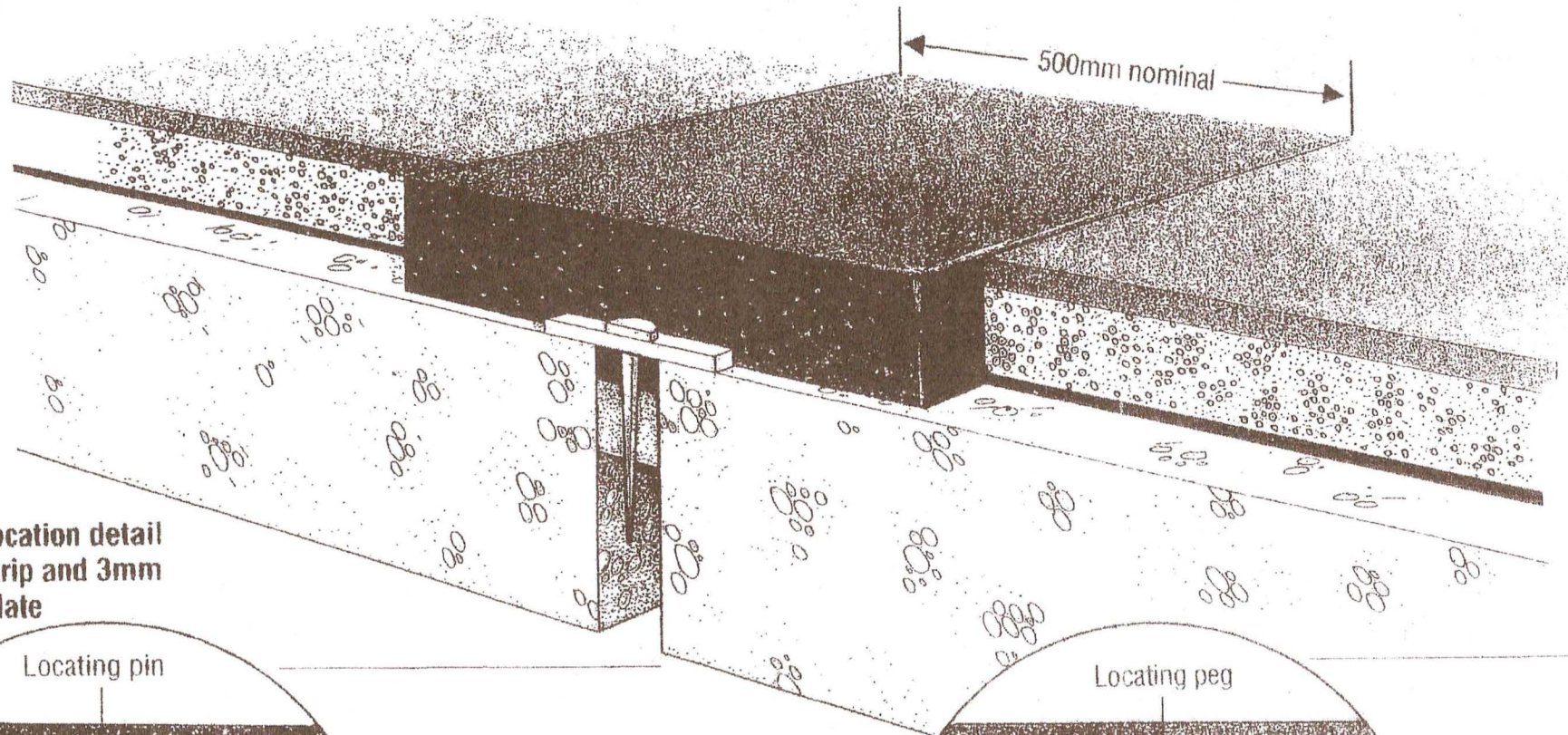
Chief Engineer S&R(B)&(BD)

For Director General (Road Development)& SS

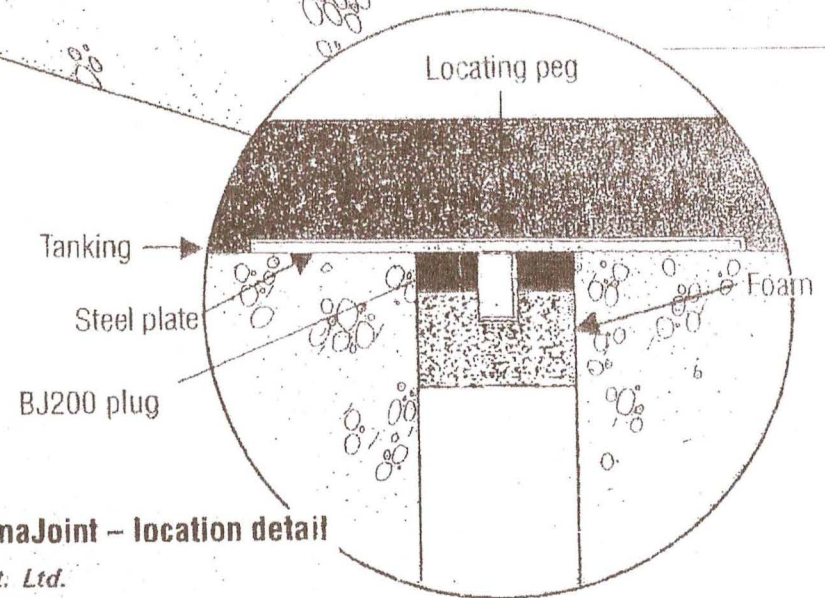
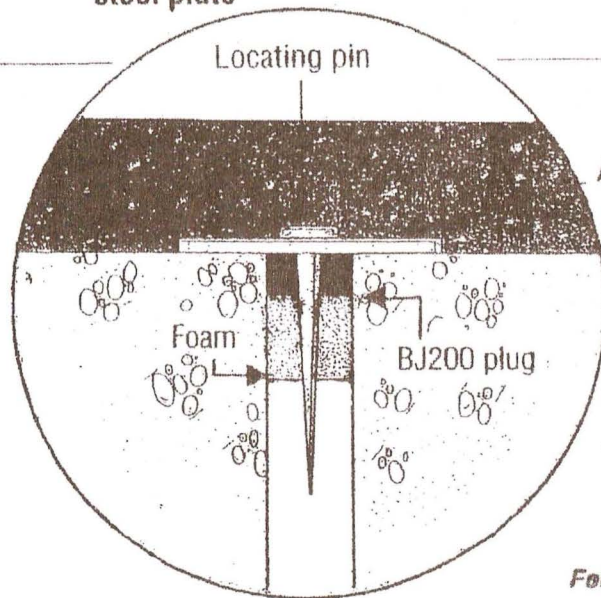
Copy to:

1. The Chairman, National Highway Authority of India, Dwaraka
2. The Director General (Border Roads), New Delhi
3. All Chief Engineers of States/Union Territories
4. All Technical Officers of the Ministry
5. All ROs/ELOs

ThormaJoint



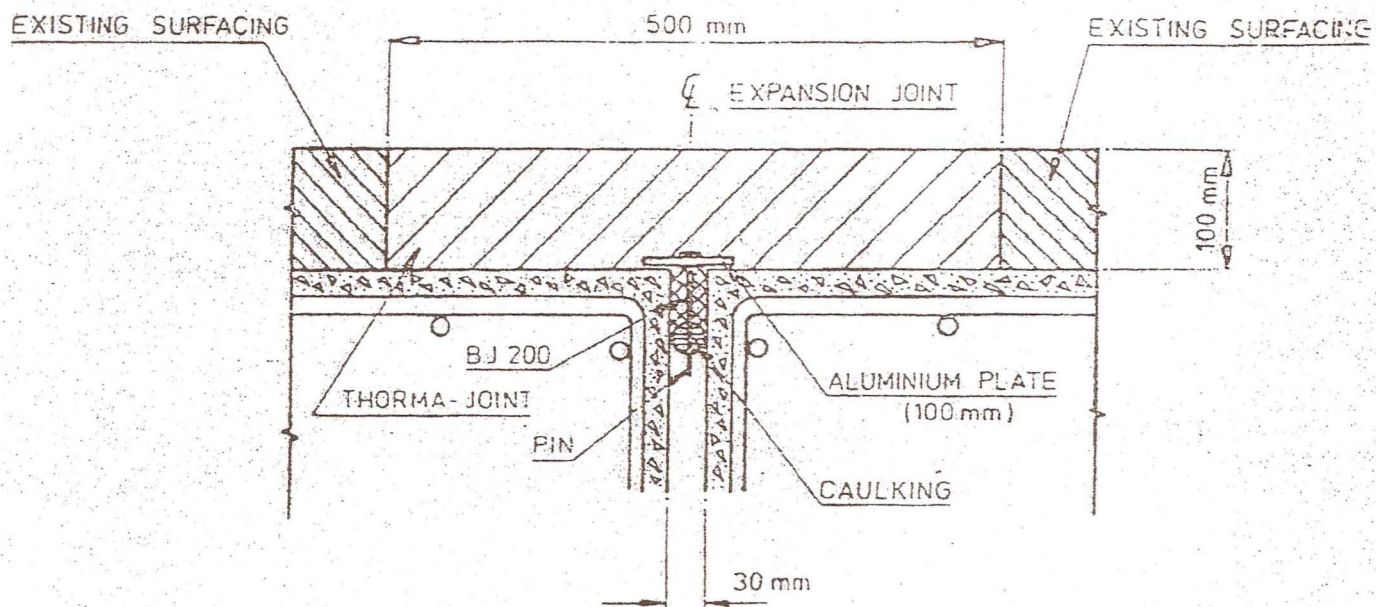
**ThormaJoint – location detail
for aluminium strip and 3mm
steel plate**



ThormaJoint – location detail

For Asphalt Constructions (I) Pvt. Ltd.

[Signature]
Authorised Signatory.



ThormaJoint Deck Jointing System



Figure 1



GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

Transport Bhawan, 1, Parliament Street,
New Delhi - 110001
e-mail: cebsr-rth@nic.in

No.RW/NH/34059/1/2009-S&R(B)

Dated: the 12th May, 2011

To

M/s Deevin Seismic Systems Pvt. Ltd.,
Plot No.23, A-2, MCF, Near 6-Ten Shop,
Sarai Khawaja, Faridabad-121003.

Subject: Empanelment of manufacturing firm/authorized suppliers of various types of expansion joints for bridges on National Highways and other Centrally Sponsored Schemes.

Sir,

1. Ministry has empanelled suppliers/manufacturers of various types of expansion joints vide letter of even number dated 2nd December 2010. Detail of empanelment in respect of M/s Deevin Seismic Systems Pvt. Ltd. is as under:

Category of empanelment	Type of Joint	Name of foreign collaboration	Sketch of the Joint
(i)	(2)	(3)	(4)
Supplier under appropriate license and technical collaboration with a foreign principal of repute.	i) Compression seal ii) Single strip seal	M/s D.S. Techstar, Inc., 1219 West main Cross Street, Findlay, Ohio, U.S.A. 45840 (Empanelment valid upto December 2010 as the cooperation agreement with the foreign principal).	

2. A warranty of trouble free performance, revised interim specifications, validity of empanelment and other terms and conditions are given in this Ministry's letter referred in para (1) above.

Yours faithfully,

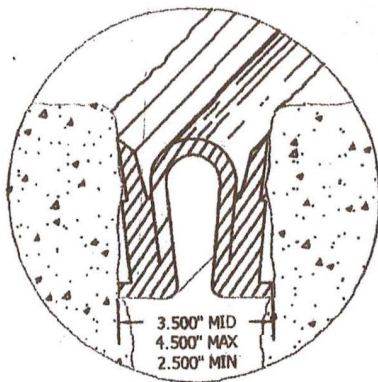
(Arun Kumar Sharma)

Chief Engineer S&R(B)&(BD)

For Director General (Road Development)& SS

Copy to:

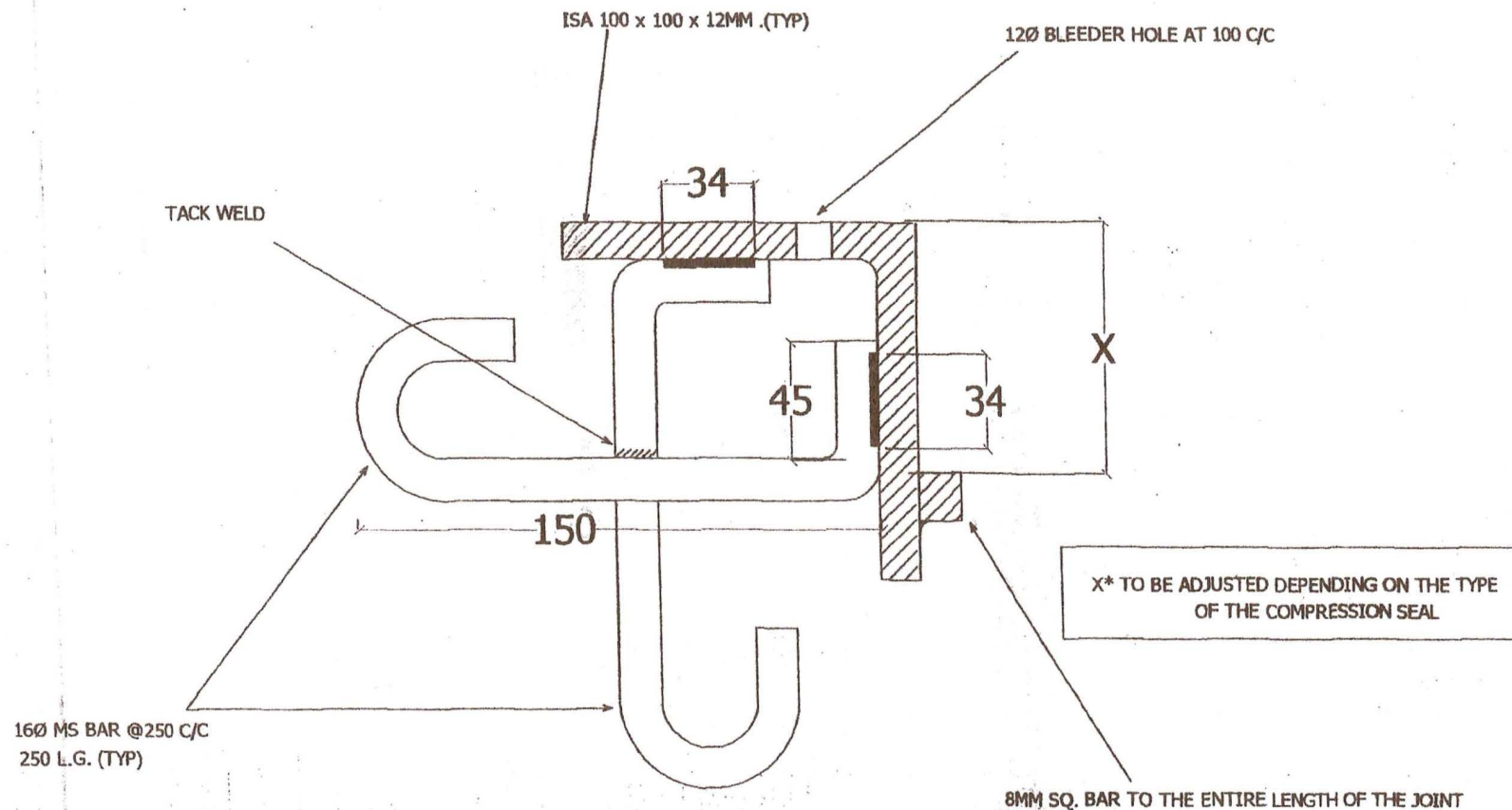
1. The Chairman, National Highway Authority of India, Dwaraka
2. The Director General (Border Roads), New Delhi
3. All Chief Engineers of States/Union Territories
4. All Technical Officers of the Ministry
5. All ROs/ELOs



INSTALLED SECTION VIEW

Ab

DEEVIN -TECHSTAR ANGLE SECTION FOR COMPRESSION SEAL EXPANSION JOINTS



STEEL ANGLE SECTION FOR COMPRESSION SEAL EXPANSION JOINT

MATERIAL QUALITY

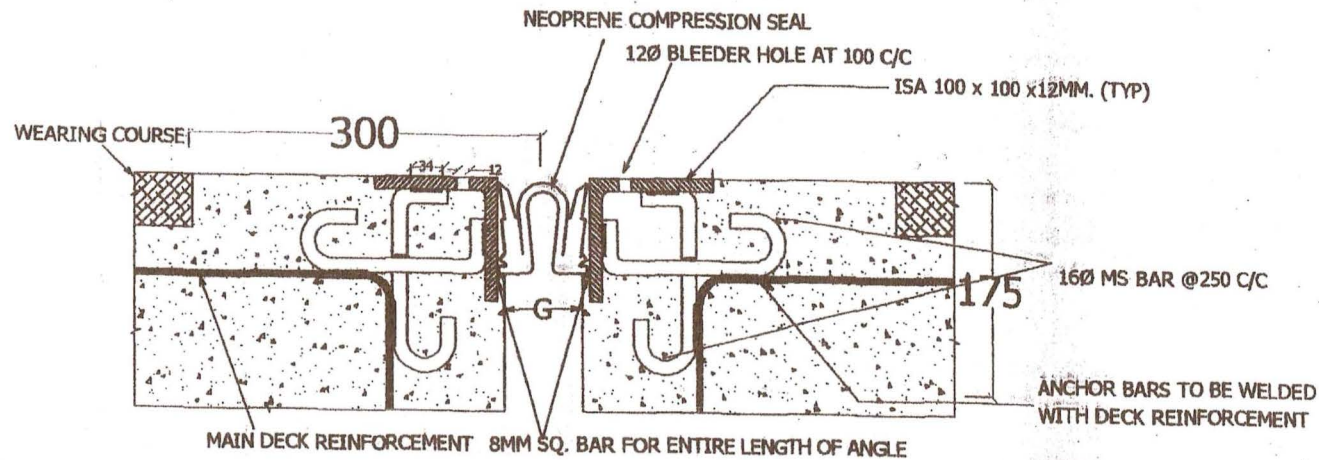
STEEL GRADE : IS : 2062

CROSS SECTIONAL AREA OF
BAR ON EACH SIDE : 1608.80 SQ. MM

TITLE	S. A. OF COMPRESSION SEAL EXPANSION JOINT		
PROJECT	EXPANSION JOINT		
	DEEVIN TECHSTAR SYSTEMS PVT. LTD. PLOT NO.22, 1ST, 2ND FLOOR, SURVEY NO. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 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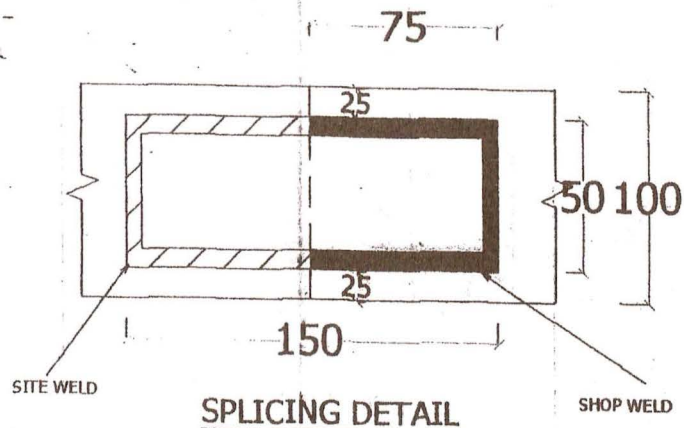
DEEVIN-TECHTAR SECTIONAL & SPLICE DETAIL FOR COMPRESSION SEAL EXPANSION JOINT

ultimate resistance of anchorage is more than 600KN/N

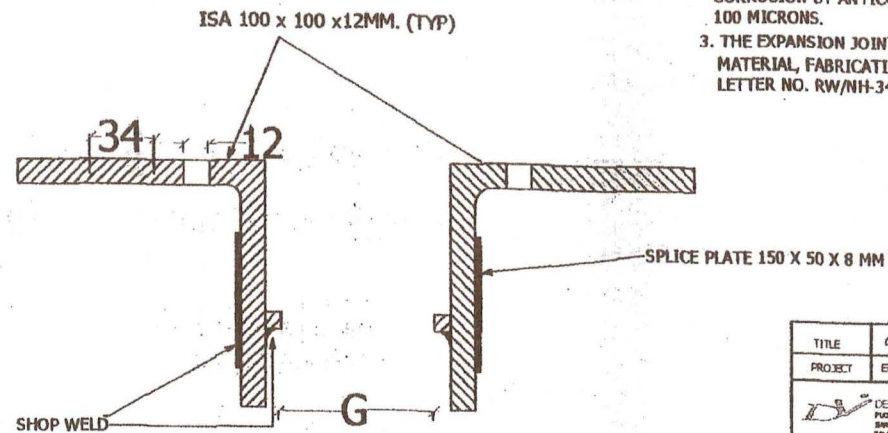


SECTIONAL DETAILS FOR COMPRESSION SEAL EXPANSION JOINTS

- NOTE: 1. ALL DIMENSIONS ARE IN mm. UNLESS NOTED OTHERWISE
 2. ALL STEEL SECTION SHALL BE PROTECTED AGAINST CORROSION BY ANTICORROSIVE COATING OF THICKNESS 100 MICRONS.
 3. THE EXPANSION JOINT, INCLUDING ALL COMPONENTS, MATERIAL, FABRICATION SHALL CONFIRM TO MORT&H. LETTER NO. RW/NH-34059/2/2001-S&R(B) DT: 14.12.2001.



SPLICING DETAIL

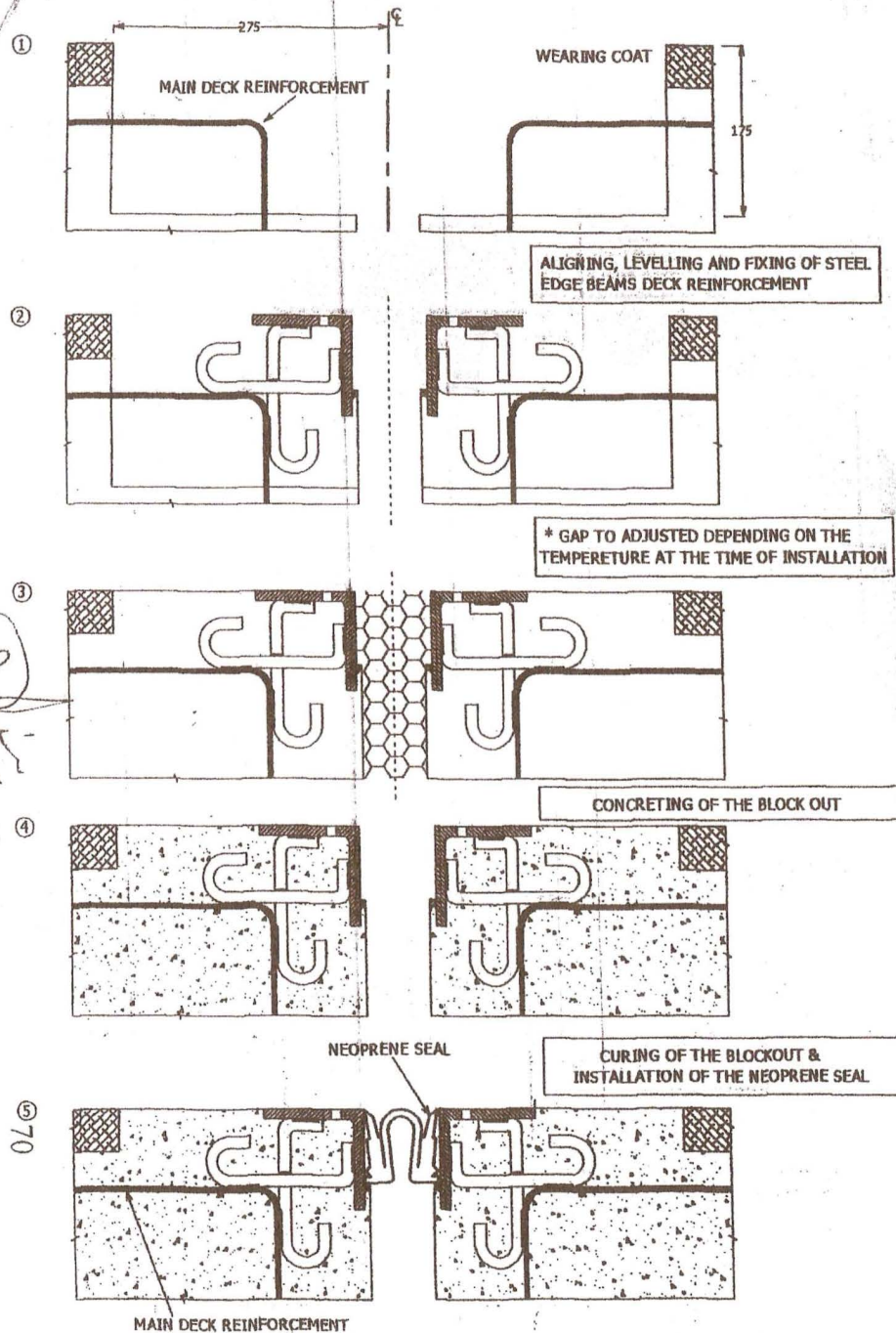


CROSS SECTION

G: TO BE ADJUSTED DEPENDING ON THE TEMPERATURE AT THE TIME OF INSTALLATION SUBJECT TO A MINIMUM OPENING OF 40mm FOR SEAL INSTALLATION AT SITE.

TITLE	G. A. OF COMPRESSION SEAL EXPANSION JOINT		
PROJECT	EMPANELMENT - MORTH		
	DEEVIN GROUP SYSTEMS PVT. LTD. PLOT NO. 23, 1ST, OLD BANK ROAD, SUREKHA, RAIPUR-492003 TEL : 031-2600000 FAX : 031-2600000, 2600002 MOBILE : 9821100040 E-mail : deevin@deevin.com E-mail : deevin@prgpl.com		DRAWING NO. 01/04/10/002
			DATE 24/01/2009
			SHEET NO. 2 OF 3
			REV. 0
			
ANGLE SECTION & SPLICE DETAILS FOR COMPRESSION SEAL EXPANSION JOINT			

DEEVIN-TECHTAR INSTALLATION PROCEDURE FOR COMPRESSION SEAL EXPANSION JOINT



STEP-1:

1. BLOCKOUT/RECESSES OF THE PROPER DIMENSION AS SHOWN IN THIS DRAWING SHALL BE PROVIDED IN THE DECK SLAB AT THE EXPANSION JOINT LOCATION.
2. THE ANGLE OF THE COMPRESSION SEAL SUPPLIED IN A PREFABRICATED FORM IN SEGMENTS SHALL BE WELDED TO ACHIEVE CONTINUITY AT SITE.
3. THE NEOPRENE SEAL SHALL BE SUPPLIED/INSTALLED IN ONE CONTINUOUS LENGTH AVOIDING ANY SPLICING/JOINTS.
4. THE GAP (G) BETWEEN THE ANGLES SHALL BE ADJUSTED DEPENDING ON THE TEMPERATURE PRESENT AT THE TIME OF INSTALLATION

STEP-2:

1. THE FABRICATED ANGLE IS PLACED IN THE BLOCKOUT AND CHECKS FOR LEVELS AND ALIGNMENT CARRIED OUT TO ENSURE THAT THE CENTRAL LINE OF THE EXPANSION GAP CONCLUDE WITH THE CENTRAL LINE OF THE EXPANSION JOINT.
2. THE ANCHOR BARS SHALL BE SECURED WITH THE MAIN DECK REINFORCED BY WELDING TO ACHIEVE INTEGRITY. TO WELD THE ANCHOR BARS WITH THE DECK REINFORCEMENT.

STEP-3

REMOVE DUST DEBRIS AND OTHER LOOSE MATERIAL FROM THE BLOCK-OUT BEFORE CONCRETING

STEP-4:

CONCRETE OF DESIRED MIX SHALL BE POURED INTO THE BLOCKOUT COMPACTED THOROUGHLY TO AVOID HONEY

STEP-5:

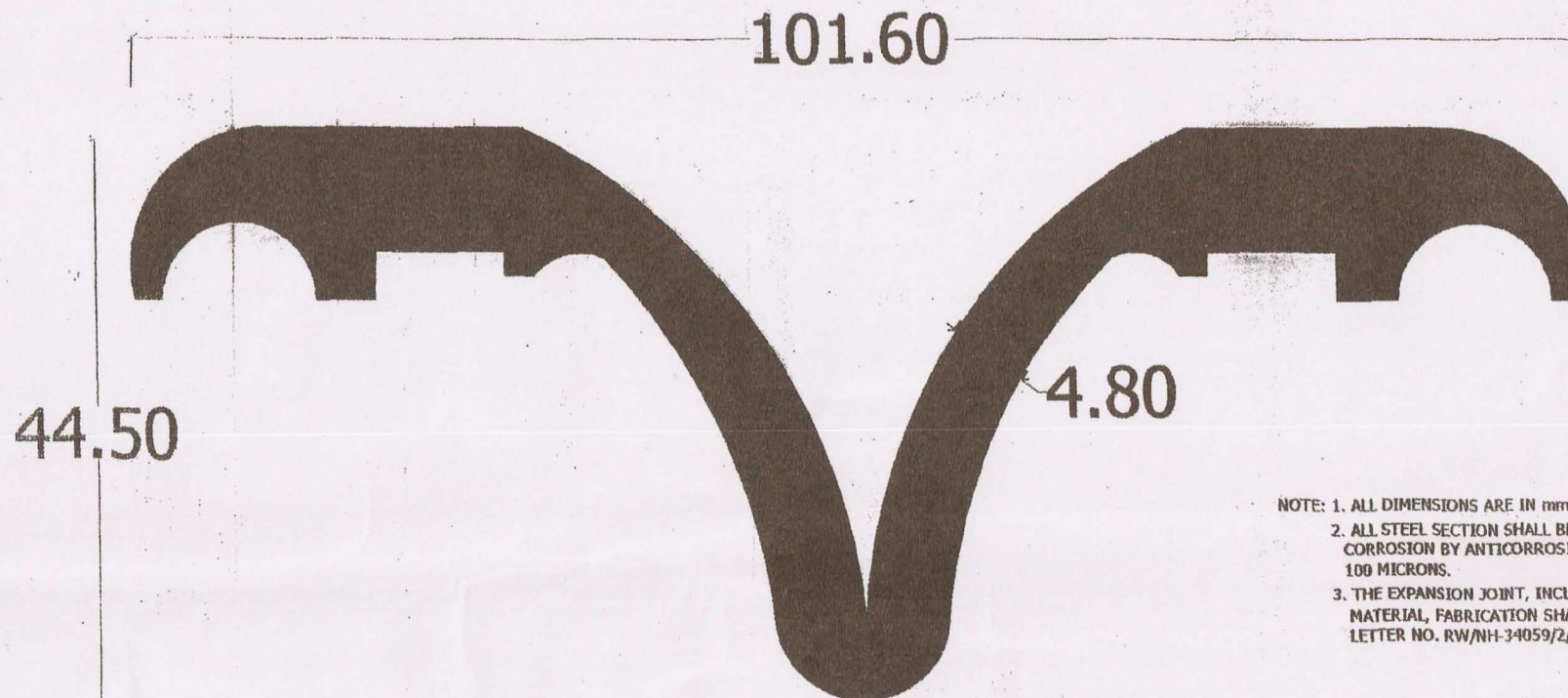
ALLOW THE CONCRETE TO CURE IN WATER MINIMUM 14 DAYS

STEP-6:

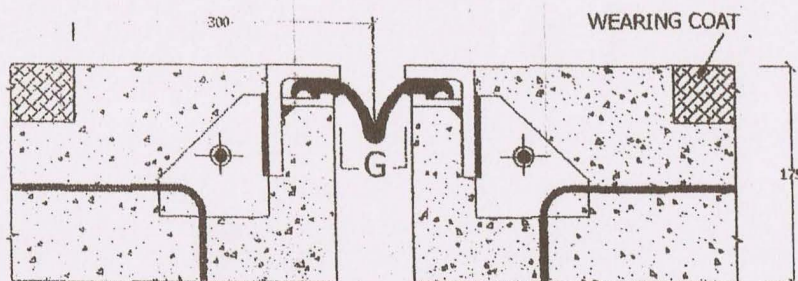
CLEAN THE GAP BETWEEN ANGLES AND INSERT THE NEOPRENE SEAL

TITLE	G. A. OF COMPRESSION SEAL EXPANSION JOINT		
PROJECT	EXPANSION - NORTH		
DEEVIN SEISMIC SYSTEMS PVT. LTD. PLOT NO. 28, H.P. OLD INDIAN ROAD, NEW GATE, CHENNAI, TAMILNADU - 600009 TEL : 044-26666666 FAX : 044-26666666 E-mail : deevin@deevin.com E-mail : deevin@deevin.com	DRAWING NO.	DEEVIN/SEISMIC/001	
	DATE	20/01/2020	
	SHEET NO.	3 OF 3	REV.
		0	
INSTALLATION PROCEDURE FOR COMPRESSION SEAL EXPANSION JOINT			

NEOPRENE STRIP SEAL FOR FOR DEEVIN - TECHSTAR STRIP SEAL EXPANSION JOINT



- NOTE: 1. ALL DIMENSIONS ARE IN mm. UNLESS NOTED OTHERWISE
 2. ALL STEEL SECTION SHALL BE PROTECTED AGAINST CORROSION BY ANTICORROSIVE COATING OF THICKNESS 100 MICRONS.
 3. THE EXPANSION JOINT, INCLUDING ALL COMPONENTS, MATERIAL, FABRICATION SHALL CONFIRM TO MORT&H. LETTER NO. RW/NH-34059/2/2001-S&R(B) DT: 14.12.2001.

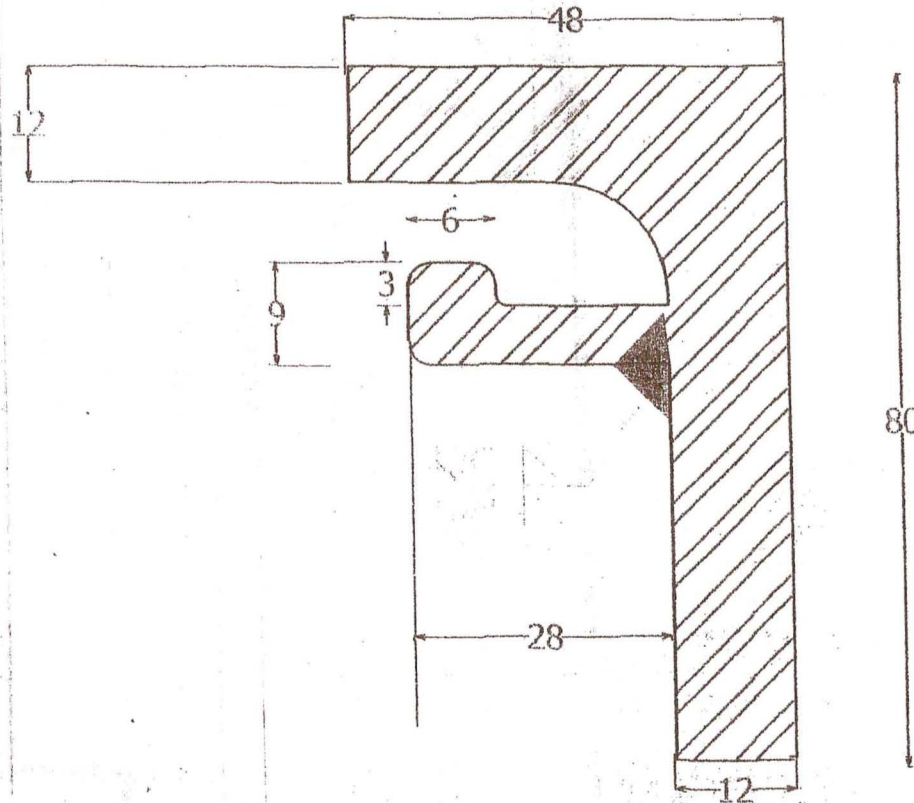


G² TO BE ADJUSTED DEPENDING ON THE TEMPERATURE AT THE TIME OF INSTALLATION SUBJECT TO A MINIMUM OPENING OF 40mm FOR SEAL INSTALLATION AT SITE.

TITLE	G. A. OF STRIP SEAL EXPANSION JOINT		
PROJECT	EMPANELMENT :- MORT&H		
 DEEVIN SEISMIC SYSTEMS PVT LTD PLOT NO. 23, MCF, OLD SHER 2001/18, RD FORD, SARAI KANAKA, FARIDABAD 121003 TEL: 0129-220000 FAX: 0129-2200015, 2200022 MOBILE: 9811330643 E-mail: deevin@rediffmail.com E-mail: deevin@deevin.com	DESIGNED BY	CIVIL ENGINEER	
	DATE	24/01/2010	
	SHEET NO.	1 OF 4	PAGE NO.
			0
DETAILS OF STRIP SEAL EXPANSION JOINT			

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DEEVIN - TECHSTAR EDGE BEAM FOR STRIP SEAL EXPANSION JOINTS



MATERIAL QUALITY:

STEEL GRADE : ASTM A-36 or A-588

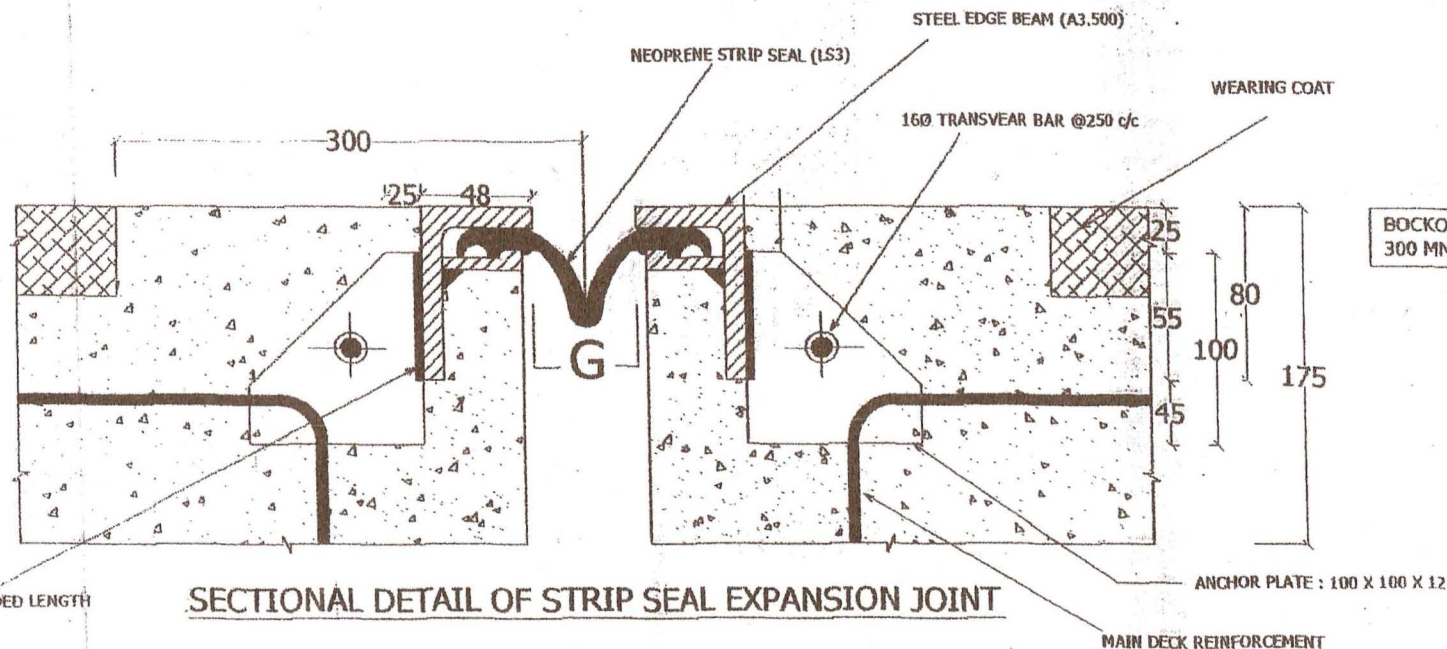
AREA = 1607 sq. mm

**EDGE BEAM FOR STRIP SEAL EXPANSION JOINT
(A3.500 SECTION)**

TITLE	G. A. OF STRIP SEAL EXPANSION JOINT		
PROJECT	ENPANELMENT - NORTH		
 DEEVIN SEISMIC SYSTEMS PVT LTD PLOT NO. 23, 1ST FLOOR, OLD DEER PARK ROAD, SARAI KHANNA, FARIDKOT-151003 TEL : 0155-2284000 FAX : 0155-2284005, 2284007 MOBILE : 9811230042 E-mail : deevin@seismicindia.com E-mail : deevin@seismicindia.com	10/07/2007 2 (1) 5		10/07/2007 2 (1) 5
	10/07/2007 2 (1) 5		10/07/2007 2 (1) 5
"A.3500" EDGE BEAM FOR STRIP SEAL EXPANSION JOINT			

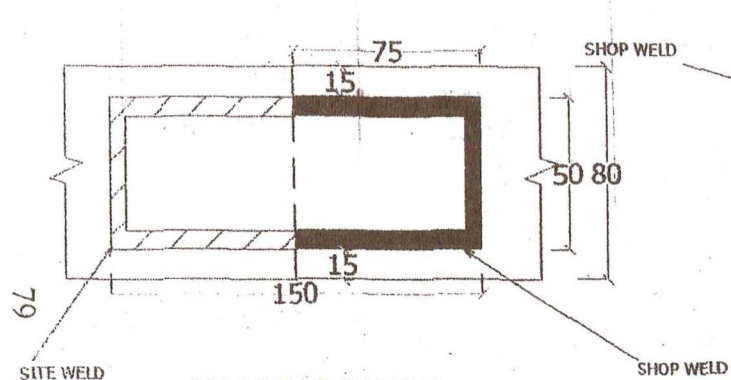
96

SECTIONAL & SPLICE DETAIL FOR DEEVIN-TECHSTAR STRIP SEAL EXPANSION JOINT



G:* TO BE ADJUSTED DEPENDING ON THE TEMPERATURE AT THE TIME OF INSTALLATION SUBJECT TO A MINIMUM OPENING OF 40mm FOR SEAL INSTALLATION AT SITE.

- NOTE: 1. ALL DIMENSIONS ARE IN mm. UNLESS NOTED OTHERWISE
2. ALL STEEL SECTION SHALL BE PROTECTED AGAINST CORROSION BY ANTICORROSIVE COATING OF THICKNESS 100 MICRONS.
3. THE EXPANSION JOINT, INCLUDING ALL COMPONENTS, MATERIAL, FABRICATION SHALL CONFIRM TO MORT&H LETTER NO. RW/NH-34059/2/2001-S&R(B) DT: 14.12.2001.



CROSS SECTION

TITLE	G. A. OF STRIP SEAL EXPANSION JOINT		
PROJECT	ENPANELMENT - MORT&H		
DEEVIN SEISMIC SYSTEMS PVT LTD PLOT NO. 25, 2ND, 4TH FLOOR, 100M ROAD, CHANDRANAGAR, CHENNAI-600 040 TEL : 045-2544444 FAX : 045-2544444 E-MAIL : deevin@deevin.com E-MAIL : deevin@deevin.com	DESIGNED BY	DATE	
	CHECKED BY	DATE	
	APPROVED BY	DATE	
	SCALE	500	1
SPLICE DETAILS OF STRIP SEAL EXPANSION JOINT			